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Necessary to the Existence of Life and Mind; (2) Neo-Vitalism considered from a Monistic Standpoint; (3) New Methods for the Derivation of the Formulae for the Perturbations of Comets.

DR. G. A. MILLER, Professor of Mathematics in the University of Michigan, has gone to Leipzig, Germany, to pursue his study in Mathematics. Dr. Miller is contributing, to the MONTHLY, a series of articles on *Substitution Groups* for which we are very thankful. This difficult subject is receiving a great deal of attention from eminent Mathematicians. Dr. Miller is now presenting the subject to the readers of the MONTHLY in a way that will be greatly appreciated.

DRS. ZERR and Matz both sent *strong* replies to Counselor Dolman's Comments on Problems 14 and 15, Average and Probability, but we thought best not to use any more space in the discussion. The published solution of problem 14 is unquestionably correct.

PROFS. J. E. W. SCHEFFER and A. H. Bell should have received credit for solutions of problem 49, Arithmetic Department.

WE HAVE received several calls for copies of the following books: *Salmon's Treatise on the Higher Plane Curves* (Latest Edition); *Salmon's Treatise on the Analytic Geometry of Three Dimensions* (4th Edn. 1882); *Salmon's Modern Higher Algebra*; *B. Price's Treatise on the Infinitesimal Calculus* (4 vol.). If any of our readers have copies of any of the above named books and wish to dispose of the same they should write to us at Springfield, Mo. Or, if any of our readers have other books and wish to dispose of them, we shall be pleased to publish the name of such books and the price of same, in the next issue of the MONTHLY. We can thus be of service to those wishing to obtain books and those wishing to dispose of them.

ALL communications and subscriptions should be sent to B. F. Finkel, Springfield, Mo. Persons failing to receive their copies should write to the Publishers, Kidder, Mo.

BOOKS AND PERIODICALS.

Algebra for Beginners. By H. S. Hall and S. R. Knight. Revised and Adopted to American Schools by Frank L. Sevenoak, A. M., M. D., Professor of Mathematics and Assistant Principal in Stevens School, Academic Department of Stevens Institute of Technology.

Small 8vo. cloth, viii+188 pp. Price, 60 cents. New York: Macmillan & Co.

This neat little work treats of all subjects to and including quadratic equations usually presented in an elementary algebra. The aim of the reviser has been to thoroughly adopt the book to the wants of all those who do not require a knowledge of Algebra beyond Quadratic Equations. In this, he has not failed. Each subject contains a long list of well selected examples, a very commendable feature in any Mathematical text-book.

B. F. F

Bellum Helveticum for Beginners in Latin. By Cornelius Marshal Lowe, Ph. D., Heidelberg University, and Nathaniel Butler, Jr., M. A., University of Chicago. 8vo. cloth, 312 pp. Chicago: Albert, Scott & Co.

This book is an introduction to the reading of Latin Authors, based on the inductive method illustrating the forms and construction of classical Latin prose. The book is written to satisfy the demand of many teachers that Latin be made at the beginning, a living subject for the student. We consider the book a most excellent one and do not hesitate to recommend it to the favorable consideration of teachers of Latin.

B. F. F.

The Essentials of Arithmetic, Oral and Written. By Gordon A. Southworth, Superintendent of Schools, Somerville, Massachusetts. 8vo. cloth, 186 pp. Boston, New York and Chicago: Leach, Shewell & Sandborne.

This book is designed for use in the third, fourth, fifth, and sixth-year grades of Public Schools. Oral and written exercises are happily blended throughout the entire work. The answers to the exercises are appended at the close of the book.

B. F. F.

An Elementary Algebra, Theoretical and Practical. By J. W. Nicholson, A. M., President and Professor of Mathematics in the Louisiana State University and Agricultural and Mechanical College. 8vo. Half Leather back, 284 pp. New York and New Orleans: University Publishing Co.

This is a splendid elementary algebra in which the author has treated a number of subjects in an original manner. The book contains about 2500 problems.

B. F. F.

Elements of Geometry, after Legendre with a Selection of Geometrical Exercises, and Hints for the Solution of the same. By Charles S. Venable LL. D., Professor of Mathematics in the University of Virginia. 8vo. cloth, 413 pp. New York and New Orleans: University Publishing Co.

This is a complete translation and adaptation of the latest edition of the standard work of Legendre. A number of changes have been made. These consist mainly in the discussion of parallels; in the treatment of tangencies; in the addition of some theorems and the omission of a few; the substitution of the method of limits for the *reductio ad absurdum* in the treatment of the measure of the circle and of the "three round bodies;" etc. All these changes are for the best. Much might be said in commendation of this excellent work.

B. F. F.

The Review of Reviews. An International Illustrated Monthly Magazine. Edited by Albert Shaw. Price, \$2.50 per year. Single Number, 25 cents. The Review of Reviews Co., New York City.

The leading features of the August *Review of Reviews* are: "Theodore Roosevelt," a character sketch by Julian Ralph; "The Clearing of Mulberry Bend," the story of the rise and fall of a New York slum, by Jacob A. Riis; "The Third Salisbury Cabinet," by W. T. Stead, and "The Record of the Rosebery Administration,"—all four articles well illustrated. The *Review of Reviews* is an illustrated summary of the world's progress.

B. F. F.

The Cosmopolitan: An International Illustrated Monthly Magazine. Edited by John Brisben Walker. Price, \$1.00 per year. Single Number, 10 cents.

The price of the Cosmopolitan, which was among the lowest of any of the great magazines has been still further reduced so that now the price of this fine magazine is \$1.00 per year. There is no reason why the Cosmopolitan should not take the lead in circulation. Its contributors rank among the best in the world and the artistic features and mechanical execution are unsurpassed. Subscribe for the Cosmopolitan.

B. F. F.

ERRATUM.

In Dr. Martin's solution of Diophantine Problem 15, p. 439, Vol. I.

for " $(4m+3)^2=16m^2+24m+1=8(2m^2+3m)+1$ "

read $4(m+3)^2=16m^2+24m+9=8(2m^2+3m+1)+1.$